ATTACHMENT D

SUMMARY OF GROUND WATER MONITORING DATA

(2004)

GLOBAL PETROLEUM CORPORATION

NPDES PERMIT NO. MA0003425

Global Petroleum Corporation 140 Lee Burbank Highway, Revere, Massachusetts NPDES Exclusion 98-086 Groundwater Treatment System Influent/Effluent Testing Results

| Date | | Jan-04 | | | | Feb-03 | | Mar-03 | |
|-------------------------|-------------|---------|------|--------|------|-------------|----------|-------------|----------|
| Parameter | NPDES Limit | Influer | nt | Efflue | nt | Influent | Effluent | Influent | Effluent |
| TPH | 5 ppm | Note 1 | mg/l | Note 1 | mg/l | 2.1 mg/l | ND mg/l | 2.3 mg/l | ND mg/l |
| Methyl Butyl Tert Ether | 70 ppb | Note 1 | ug/l | Note 1 | ug/l | 46,400 ug/l | 1.7 ug/l | 77,300 ug/l | ND ug/i |
| Benzene | 5 ppb | Note 1 | ug/l | Note 1 | ug/l | 2,300 ug/l | ND ug/l | 2,130 ug/l | ND ug/l |
| Toluene | * | Note 1 | ug/l | Note 1 | ug/l | 8,990 ug/l | ND ug/l | 3,660 ug/l | ND ug/l |
| Ethylbenzene | * | Note 1 | ug/l | Note 1 | ug/l | 868 ug/l | ND ug/l | 474 ug/l | ND ug/l |
| Xylenes | * | Note 1 | ug/l | Note 1 | ug/l | 8,970 ug/l | ND ug/l | 4,690 ug/l | ND ug/l |
| Total BTEX | 100 ppb | Note 1 | ug/l | Note 1 | ug/l | 21,128 ug/l | ND ug/l | 10,954 ug/l | ND ug/l |

ND - Not detected

Note 1 - System down. No sample collected.



03/31/04

| Technical Report for |
|-----------------------------|
| Camp Dresser & McKee |
| Camp Diesser & McKee |
| Global Petroleum, Revere MA |
| |
| Accutest Job Number: M38294 |
| • |
| |
| |
| |
| Report to: |
| Camp, Dresser & McKee |
| |
| WinklerJH@cdm.com |
| ATTN: Jim Winkler |

Total number of pages in report: 15



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Pand Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250203) RI (00071) ME (MA136) FL (E87579) NY (11791) NJ (MA926) IL (000589) NAVY USACE

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Sample Summary

Camp Dresser & McKee

Global Petroleum, Revere MA

Job No:

M38294

| Sample Number | Collected Date Time By | Mat Received Cod | | Client Sample ID |
|------------------|---------------------------|---------------------|--------------|---------------------|
| M38294-1 | 03/15/04 10:55 TAN | 03/18/04 AQ | Influent | INF-31504 |
| M38294-2 | 03/15/04 11:00 TAN | 03/18/04 AQ | Ground Water | CIN-31504 |
| M38294-3 | 03/15/04 11:05 TAN | 03/18/04 AQ | Ground Water | MID-1-31504 |
| M38294-4 | 03/15/04 11:10 TAN | 03/18/04 AQ | Ground Water | MID-2-31504 |
| M38294-5 | 03/15/04 11:15 TAN | 03/18/04 AQ | Effluent | EFF-31504 |



| Lab Sam Matrix: Method: Project: | AQ - I EPA 6 | 94-1 Influent 602 | 1, Revere MA | | Date Sample Date Receiv Percent Soli | | |
|---|-----------------|-------------------------|--------------|----|--|------------|---------------------------------------|
| | File ID | DF | Analyzed | Ву | Prep Date | Prep Batch | Analytical Batch |
| Run #1 | MN26141.D | 100 | 03/29/04 | AP | n/a | n/a | GMN1006 |
| Run #2 | MN26148.D | 250 | 03/29/04 | AP | n/a | n/a | GMN1006 |
| | Purge Volume | ; | | | | | · · · · · · · · · · · · · · · · · · · |
| Run #1 | 5.0 ml | | | | | | |
| Run #2 | 5.0 ml | | | | | | |

Purgeable Aromatics, MTBE

| CAS No. | Compound | Result | RL | Units Q |
|---|--|---|---------------------------------|--------------------------------------|
| 71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 | Benzene Toluene Ethylbenzene Xylenes (total) Methyl Tert Butyl Ether | 2130 3660 474 4690 77300 ^a | 100 100 100 100 250 | ug/l ug/l ug/l ug/l ug/l |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
| | 2,3,4-Trifluorotoluene | 77% | 76% | 61-124% |

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: INF-31504 Lab Sample ID:

M38294-1

Date Sampled: 03/15/04 Date Received: 03/18/04

Matrix:

AQ - Influent

Project:

Global Petroleum, Revere MA

Percent Solids: n/a

General Chemistry

Analyte

Result

RL

Units

DF

Analyzed

By Method

Petroleum Hydrocarbons

2.3

0.61

mg/l

1

03/22/04

Page 1 of 1

| Client Sample ID: | CIN-31504 | | |
|-------------------|-----------------------------|-----------------|----------|
| Lab Sample ID: | M38294-2 | Date Sampled: | 03/15/04 |
| Matrix: | AQ - Ground Water | Date Received: | 03/18/04 |
| Method: | EPA 602 | Percent Solids: | n/a |
| Project: | Global Petroleum, Revere MA | | |

| | | | | | | | |
|--------|-----------|----|----------|----|-----------|-------------|------------------|
| Run #2 | MN26145.D | 50 | 03/29/04 | AP | n/a | n/a | GMN1006 |
| Run #1 | MN26142.D | 1 | 03/29/04 | AP | n/a | n/a | GMN1006 |
| | File ID | Dr | Anaryzeu | Бу | Frep Date | Prep Batch | Analytical Batch |

| | Purge Volume | | | |
|--------|--------------|--|--|--|
| Run #1 | 5.0 ml | | | |
| Run #2 | 5.0 ml | | | |

Purgeable Aromatics, MTBE

| CAS No. | Compound | Result | RL | Units Q | |
|-----------|-------------------------|-------------|--------|---------|--|
| 71-43-2 | Benzene | ND | 1.0 | ug/l | |
| 108-88-3 | Toluene | 2.0 | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | ug/l | |
| 1330-20-7 | Xylenes (total) | 7.0 | 1.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 6130 a | 50 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | |
| | 2,3,4-Trifluorotoluene | 79 % | 73% | 61-124% | |

(a) Result is from Run# 2

ND = Not detected

 $RL = Reporting\ Limit$

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: CIN-31504

Lab Sample ID: M38294-2

Matrix:

AQ - Ground Water

Date Sampled: 03/15/04

Date Received: 03/18/04

Percent Solids: n/a

Project:

Global Petroleum, Revere MA

General Chemistry

Analyte Result RL

Units

DF Analyzed

By Method

Petroleum Hydrocarbons

< 0.61

0.61

mg/l

1

03/22/04

BF

EPA 418.1

By

AP

Page 1 of 1

Client Sample ID: MID-1-31504 Lab Sample ID: M38294-3

Matrix:

AQ - Ground Water

1

Date Sampled: 03/15/04 Date Received: 03/18/04

Method:

EPA 602

Percent Solids: n/a

Project:

Global Petroleum, Revere MA

DF Analyzed

03/29/04

Prep Date n/a

Prep Batch

n/a

Analytical Batch GMN1006

Run #1 Run #2

Purge Volume

MN26143.D

Run #1

5.0 ml

File ID

Run #2

Purgeable Aromatics, MTBE

| CAS No. | Compound | Result | RL | Units Q |
|---|--|------------------------------|--------------------------|--------------------------------------|
| 71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 | Benzene Toluene Ethylbenzene Xylenes (total) Methyl Tert Butyl Ether | ND ND ND ND 37.8 | 1.0 1.0 1.0 1.0 | ug/l ug/l ug/l ug/l ug/l |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
| | 2,3,4-Trifluorotoluene | 73% | | 61-124% |

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: MID-1-31504 Lab Sample ID: M38294-3

Matrix:

AQ - Ground Water

Date Sampled: 03/15/04

Date Received: 03/18/04

Project:

Global Petroleum, Revere MA

Percent Solids: n/a

General Chemistry

Analyte

Result

RL

Units

DF

Analyzed

Ву Method

Petroleum Hydrocarbons

< 0.61

0.61

mg/l

1

03/22/04

Client Sample ID: MID-2-31504 Lab Sample ID: M38294-4

Matrix: Method:

AQ - Ground Water

EPA 602

Date Sampled: 03/15/04 Date Received: 03/18/04

Percent Solids: n/a

Project: Global Petroleum, Revere MA

File ID DF Ву Analyzed **Prep Date** Run #1 MN26146.D 1 03/29/04 AP

n/a

Prep Batch n/a

Analytical Batch GMN1006

Run #2

Purge Volume

Run #1 5.0 ml

Run #2

Purgeable Aromatics, MTBE

| CAS No. | Compound | Result | RL | Units Q |
|---|--|----------------------------|---------------------------------|--------------------------------------|
| 71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 | Benzene Toluene Ethylbenzene Xylenes (total) Methyl Tert Butyl Ether | ND ND ND ND ND | 1.0 1.0 1.0 1.0 1.0 | ug/l ug/l ug/l ug/l ug/l |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
| | 2,3,4-Trifluorotoluene | 76% | | 61-124% |



RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: MID-2-31504 Lab Sample ID: M38294-4

Matrix:

General Chemistry

AQ - Ground Water

Date Sampled: 03/15/04

Date Received: 03/18/04

Percent Solids: n/a

Project:

Analyte

Global Petroleum, Revere MA

Units

DF

Analyzed

Ву Method

Petroleum Hydrocarbons

< 0.61

Result

0.61

RL

mg/l

1

03/22/04

Page 1 of 1

| Client Sample ID: | EFF-31504 | | |
|-------------------|---------------|-----------------|----------|
| Lab Sample ID: | M38294-5 | Date Sampled: | 03/15/04 |
| Matrix: | AQ - Effluent | Date Received: | 03/18/04 |
| Method: | EPA 602 | Percent Solids: | n/a |
| Matrix: | AQ - Effluent | Date Received: | 03/1 |

Project: Global Petroleum, Revere MA

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| | MN26147.D | 1 | 03/29/04 | AP | n/a | n/a | GMN1006 |
| Run #2 | | | | | | | |

| | | |
|-------------|--|-------------|
| urge Volume | | |
| .0 ml | | |
| | | |
| | | |

Purgeable Aromatics, MTBE

| CAS No. | Compound | Result | RL | Units Q |
|-----------|-------------------------|--------|--------|---------|
| 71-43-2 | Benzene | ND | 1.0 | ug/l |
| 108-88-3 | Toluene | ND | 1.0 | ug/l |
| 100-41-4 | Ethylbenzene | ND | 1.0 | ug/l |
| 1330-20-7 | Xylenes (total) | ND | 1.0 | ug/l |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | ug/l |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
| | 2,3,4-Trifluorotoluene | 74% | | 61-124% |

ND = Not detected

 $RL = Reporting \ Limit$

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 1 of 1

Client Sample ID: EFF-31504 Lab Sample ID:

M38294-5

Date Sampled: 03/15/04

AQ - Effluent

Date Received: 03/18/04 Percent Solids: n/a

Project:

Matrix:

Global Petroleum, Revere MA

General Chemistry

Analyte

Result

RL

Units DF

Analyzed

Method Ву

Petroleum Hydrocarbons

< 0.61

0.61

mg/l

1

03/22/04

| Misc. 1 | OTHIS |
|-----------|---------------------------------|
| Custody | Documents and Other Forms |
| | |
| Includes | the following where applicable: |
| • Chain o | f Custody |



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|---|--|---------------------------------------|----|---|-----------|--|------------------|---------|---------|-----------|---------|--|--------------------------|--------------|------------------------|------|----------|--------------------------------------|------------------------|--|--|-------------|
| 53AL | ا ؛ لياناء | TFI: 508-481-6200 • FAX: 508-481-7753 | | | | | | | | | | | | | | | | | | | | |
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| CLIENT INFORMATION COM NAME 50 HAMRSHIRE ST ADDRESS CAM BICIDATE MA CITY, TIM WALL STATE ZIP | | | | PROJECT NAME LIGHT BURBANK HOWY | | | | | | 7000 - | 100 | | | | | | | GW - WW - SO - SL - OI - | SLUDGE OIL OTHER | | | |
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| ACCUTEST SAMPLE # | FIELD ID / PC | INT OF COLLECTION | ON | DATE | TIME | SAMPLED BY: | MATRIX | BOTTLES | 귳 | # FFO3 | NONE E | | J 6 | 7 | 1. | | | | 1_ | | LAB | JSE ONLY |
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M38294: Chain of Custody Page 1 of 1

